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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/945,027	08/31/2001	Venkateswar R. Kowkutla	TI-31681	1605
23494	7590	05/11/2006		
TEXAS INSTRUMENTS INCORPORATED				EXAMINER
P O BOX 655474, M/S 3999				NGUYEN, LINH V
DALLAS, TX 75265				ART UNIT
				PAPER NUMBER
				2819

DATE MAILED: 05/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/945,027	KOWKUTLA ET AL.
	Examiner	Art Unit
	Linh V. Nguyen	2819

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 17 March 2006.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-16, 19 - 23 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-4 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) 5-16 and 19-23 are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 31 August 2001 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date 11/25/05.
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

Art Unit: 2819

DETAILED ACTION

1. This office action is in response to RCE filed on 3/17/06. Claims 17 – 18 and 24 have been canceled. Claims 1 – 16, and 19 – 23 are pending on this application. Claims 5 – 16 and 19 – 23 have been withdrawn.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1 – 4, rejected under 35 U.S.C. 102(b) as being anticipated by Hendricks U.S. patent No. 5,999,114.

Regarding to claim 1, Fig. 1 of Hendricks disclose a digital amplify system including a noise shaper (Fig.1) and a dither generator (305) arranged to introduce noise to the shaper (303), said generator (305) using a seed value (131) (See Col. 4 lines 1 – 5 for disclose the dither signal noise 303 is depended from the feed back gain factor of the noise shaper) derived from a programmable delay element (115, 123) of said shaper (Fig. 1).

Regarding claim 2, Fig. 4 (Col.4 lines 42 – 43) further discloses wherein the number of bits (850, 856, 862, 866, 870, 874, 880, 884, 886) in the generated noise exceeds that of the seed value (834, 902, 904, 906, 908, 910, 912, 914).

Regarding claim 3, wherein the dither generator (Fig. 4) includes shift registers (OR and MUX) of predetermined bit lengths to receive said seed values (834, 902, 904, 906, 908, 910, 912, 914), and provides a noise output (854 – 898).

Regarding claim 4, Fig. (1) discloses digital amplifier including means (101, 102, 131, 305) for scaling said noise.

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh Van Nguyen whose telephone number is (571) 272-1810. The examiner can normally be reached from 8:30 – 5:00 Monday-Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Rexford Barnie can be reached at (571) 272-7492. The fax phone numbers for the organization where this application or proceeding is assigned are (571-273-8300) for regular communications and (571-273-8300) for After Final communications.

5/8/06

Linh Van Nguyen
Art Unit 2819

LINH NGUYEN
PRIMARY EXAMINER

